Title: MEDICAL IMAGING DEVICE AND METHOD

## IN THE CLAIMS

- 1. (Currently Amended) An imaging system, comprising:
- a sensor ring having a plurality of sensors mounted thereon to gather [external] image data of external features of [from] an object within the ring; and
- a motor operatively connected to the sensor ring to move the ring about its longitudinal axis to rotate the ring about an object within the ring.
- 2. (Original) The imaging system of claim 1, and further comprising: a second motor to move the ring translationally along the longitudinal axis.
- 3. (Currently Amended) An imaging system, comprising:

[an external] a first imaging device for imaging an external surface of an object to be imaged;

[an internal] a second imaging device for imaging internal features of the object to be imaged; and

a processor operatively connected to the [external] first imaging device and to the [internal] second imaging device, the processor to combine images from the [external] first imaging device and the [internal] second imaging device to create a three dimensional image of the external and internal features of [an] the object to be imaged.

- 4. (Currently Amended) The imaging system of claim 3, wherein the [external] first imaging device comprises:
- a sensor ring having a plurality of sensors mounted thereon to gather external image data from an object within the ring; and
- a motor operatively connected to the sensor ring to move the ring about its longitudinal axis to rotate the ring about an object within the ring.
- 5. (Currently Amended) The imaging system of claim 4, wherein the [external] first imaging system further comprises:
  - a second motor to move the ring translationally along the longitudinal axis.
- 6. (Currently Amended) The imaging system of claim 3, wherein the [internal] second imaging device is a magnetic resonance imaging device.

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- 7. (Currently Amended) The imaging system of claim 3, wherein the [internal] second imaging device is an ultrasound device.
- 8. (Currently Amended) The imaging system of claim 3, wherein the [internal] second imaging device is an X-ray device.
- (Original) A method of imaging, comprising:
  placing a subject to be imaged into a sensor ring;
  rotating the sensor ring about a first rotational axis to image the circumference of the subject;

translating the sensor ring about a translational axis to image the length of the subject; sensing subject external image information with sensors of the sensor ring; and processing received image information in a processor to generate a three dimensional representation of the subject.

- 10. (Original) A method of imaging, comprising: obtaining a three dimensional internal image of an object; obtaining a three dimensional external image of the object; processing the images in a processor; and combining the internal and external images to form a composite image.
- 11. (Original) The method of claim 10, and further comprising: displaying the composite image on a display device.
- 12. (Original) The method of claim 10, and further comprising: manipulating the image to view the image from a desired angle or angles; and printing any image views desired.
- 13. (Currently Amended) A method of imaging a subject, comprising: providing a sensor ring having a plurality of sensors mounted thereon for sensing an object within the sensor ring;

rotating the sensor ring around the object;

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providing a linear axis along which the sensor ring travels, the linear axis normal to the angular rotation of the sensor ring;

processing data relative to known position both rotationally and linearly to create a three dimensional image of the external features of the object.

- (Original) The method of claim 13, and further comprising: 14. saving the image in a machine readable format.
- 15. (Original) The method of claim 13, and further comprising: combining the image with a magnetic resonance image.
- (Original) The method of claim 13, and further comprising: 16. combining the image with an ultrasound image.
- (Original) The method of claim 13, and further comprising: 17. overlaying the image with a MRI image; and saving a combined image in a machine readable format.
- 18. (Currently Amended) An imaging device, comprising: means for sensing external parameters of an object; means for rotating the sensing means around the circumference of an object; and means for moving the sensing means laterally along a length of the object.
- 19. (Currently Amended) A medical imaging device, comprising: a computer having a processor;
- a sensor ring having a plurality of sensors, each of the sensors operatively connected to provide sensing data of external features of an object to the computer, wherein the sensor ring is movable in a first direction that rotates the ring substantially about an axis normal to the direction of rotation, and in a second direction that translates the ring linearly along the axis.
- (Original) The medical imaging device of claim 19, wherein the sensors are ultrasonic 20. sensors.

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21. (Original) The medical imaging device of claim 19, wherein the processor receives the sensor data and creates a three dimensional image of an object within the sensor ring.

- 22. (Original) The medical imaging device of claim 19, and further comprising: a printer operatively connected to the computer, the printer to print generated images.
- 23. (Original) The medical imaging device of claim 19, wherein the sensor ring is moved with at least one motor.
- 24. (Original) A method of generating an image of an object, comprising: obtaining an internal image of the object; obtaining a three dimensional external image of the object; overlaying the internal image with the three dimensional external image; and saving the combined image in a machine readable format.
- 25. (Original) The method of claim 24, wherein saving comprises saving the combined image as a plurality of individual images.
- 26. (Original) The method of claim 25, and further comprising: selecting one or more of the plurality of individual images for viewing.